

Fig. 1

Recognition of concrete outline

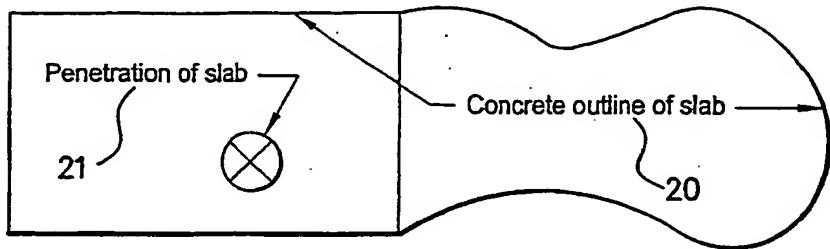


Fig. 2

Recognition of steps in slab

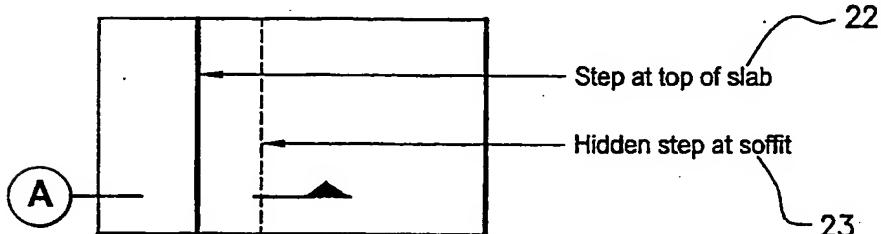


Fig. 3

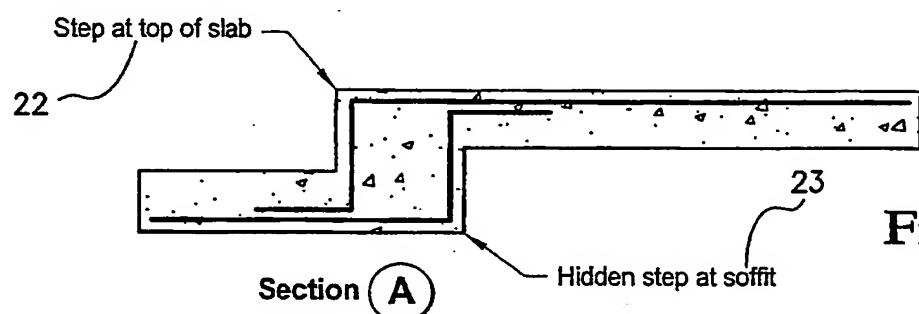


Fig. 4

Recognition of text - bar dia, spacing

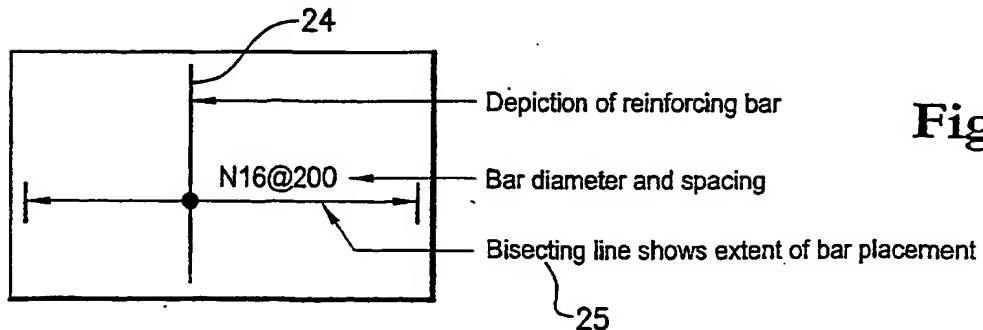


Fig. 5

Bar spacing recognition via table

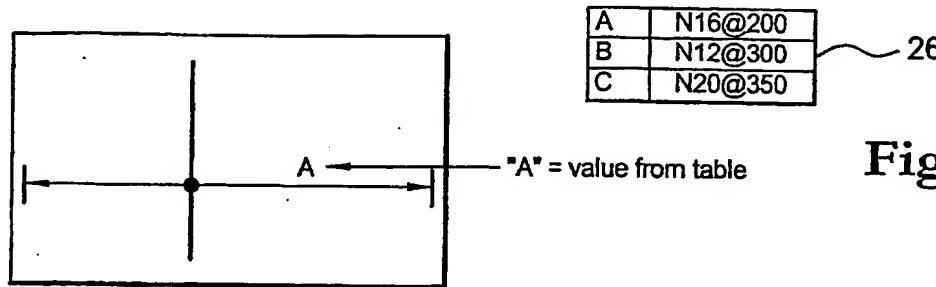


Fig. 6

Data input situations

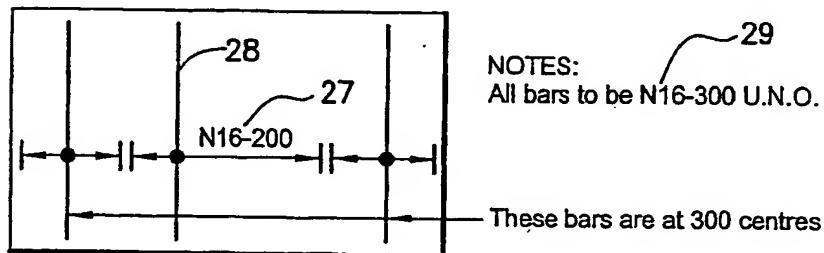


Fig. 7

Bar shape identification

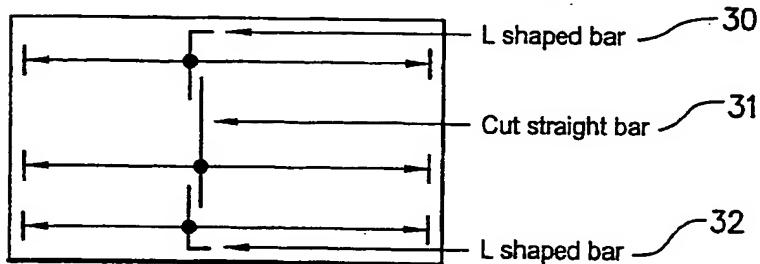


Fig. 8

Extent of each bar range

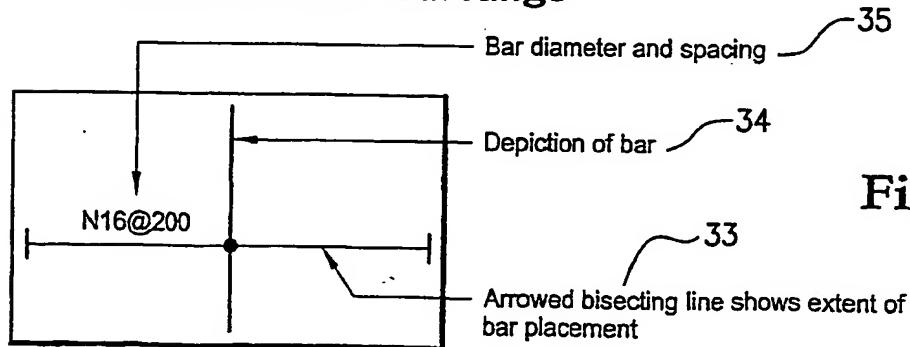


Fig. 9

Recognition of distribution steel

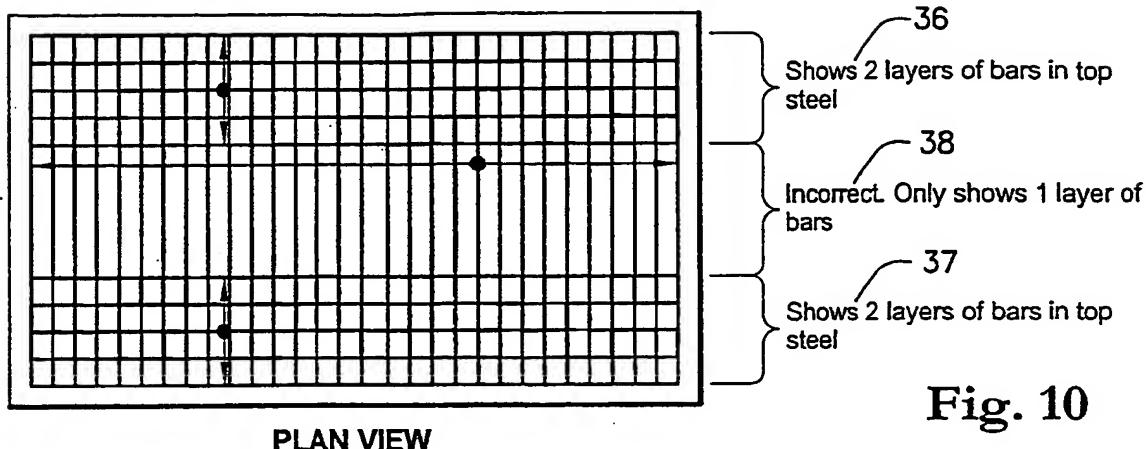


Fig. 10

PLAN VIEW

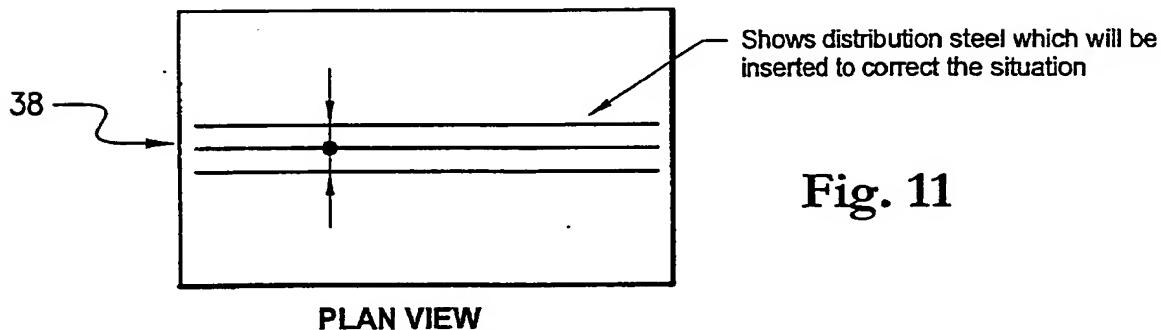


Fig. 11

Bar lapping recognition

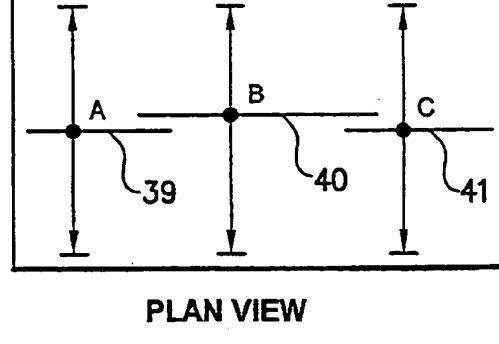
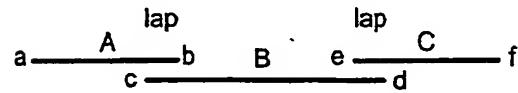


Fig. 12

PLAN VIEW



$$B = ad - ab + \text{lap}$$

Recognition of gradients

Fig 13

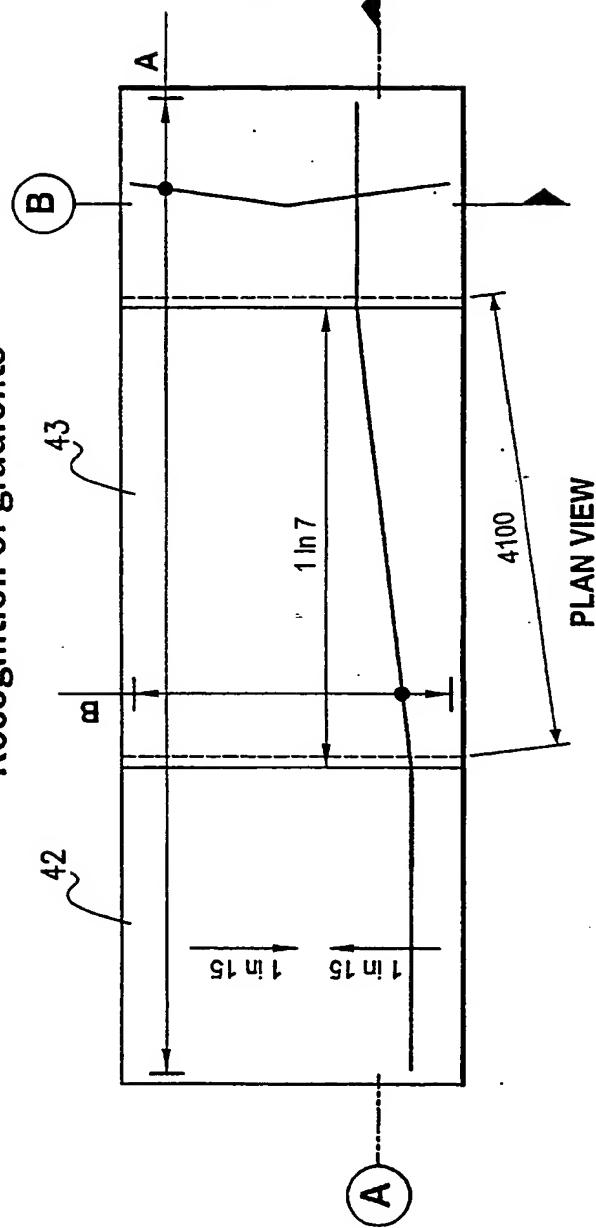
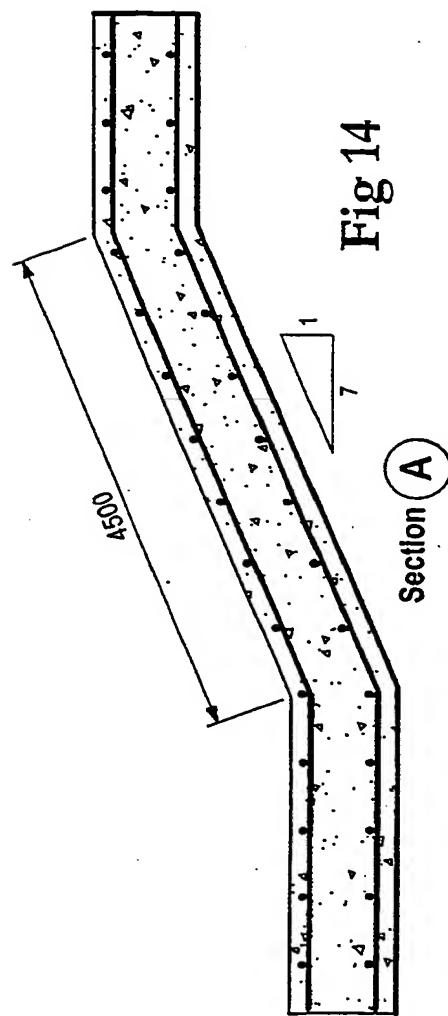


Fig 14



Section B

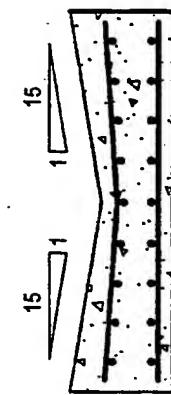
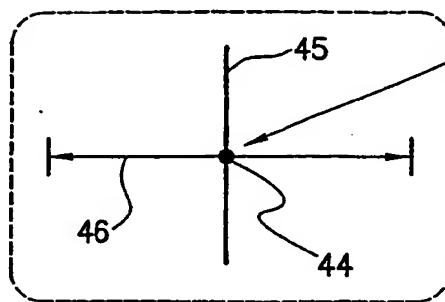


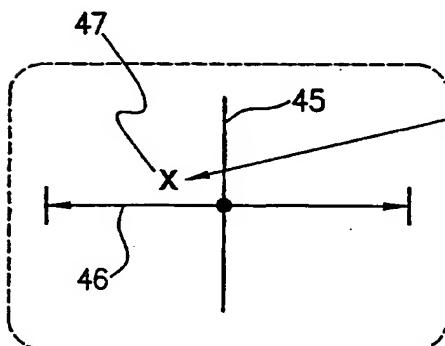
Fig 15

Default bar mark placement



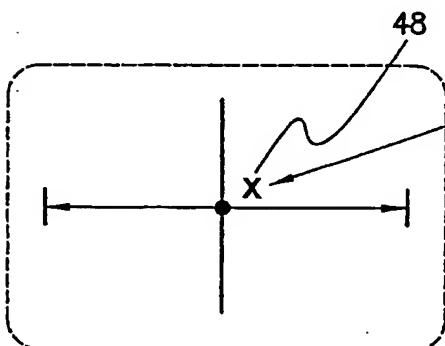
Barmarks to be placed by using the conjunction point of where the bisecting line crosses the depicted bar.

Fig 16



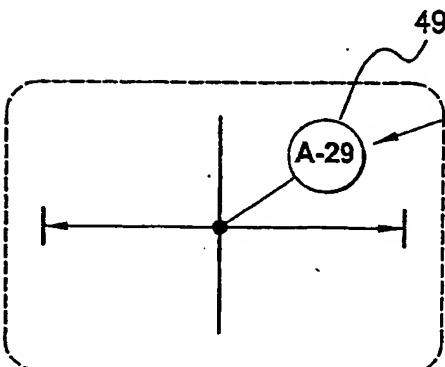
Selection point which can be moved around field. Its placement determines final position of barmark.

Fig 17



Depicts chosen position of barmark.

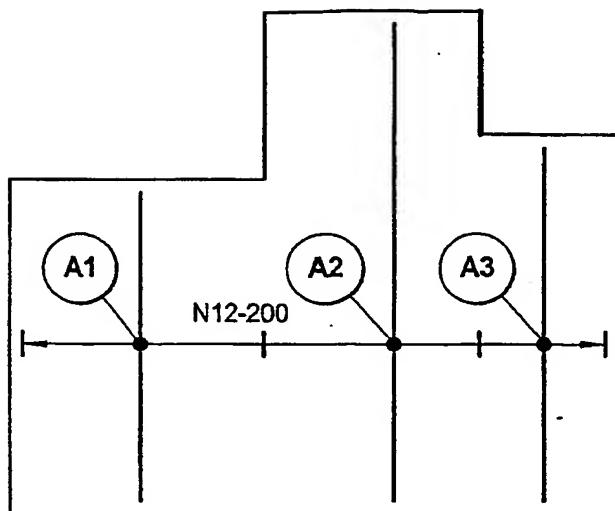
Fig 18



Shows bar label applied to drawing as per instructions.

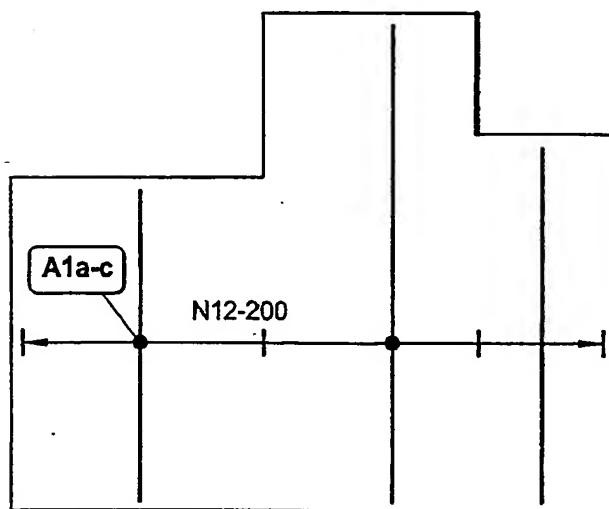
Fig 19

Bar marking



Too many barmarks offered for what is the one bar range

Fig 20

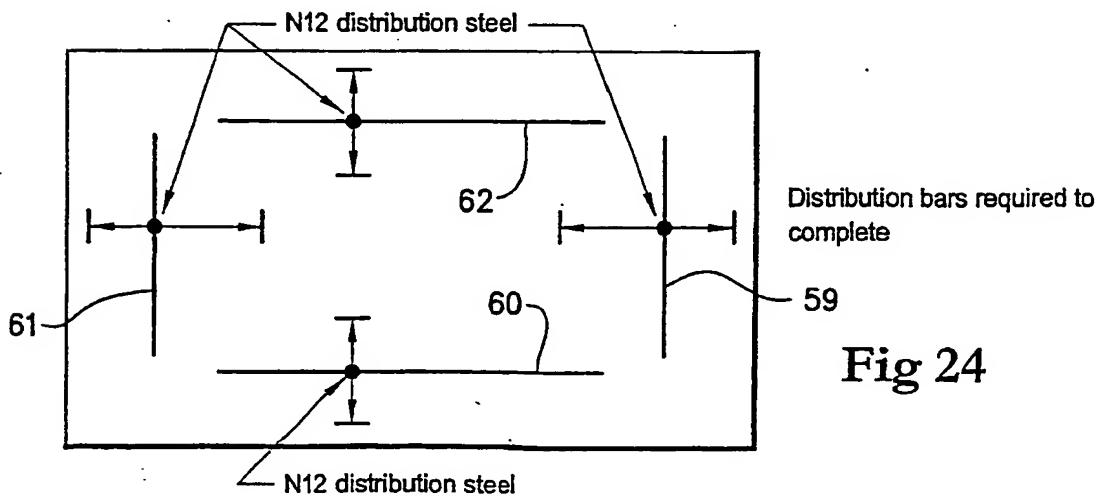
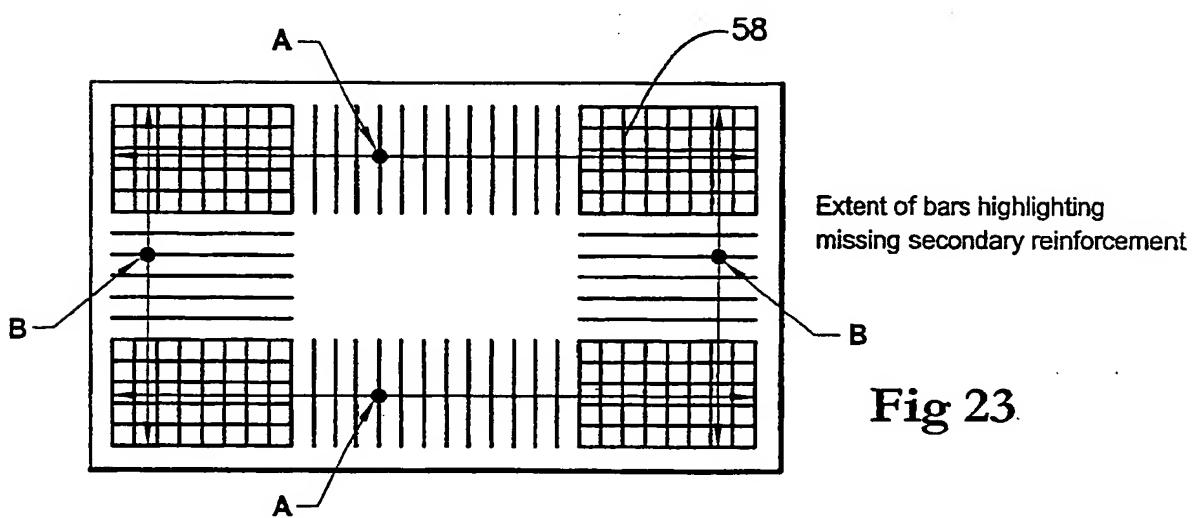
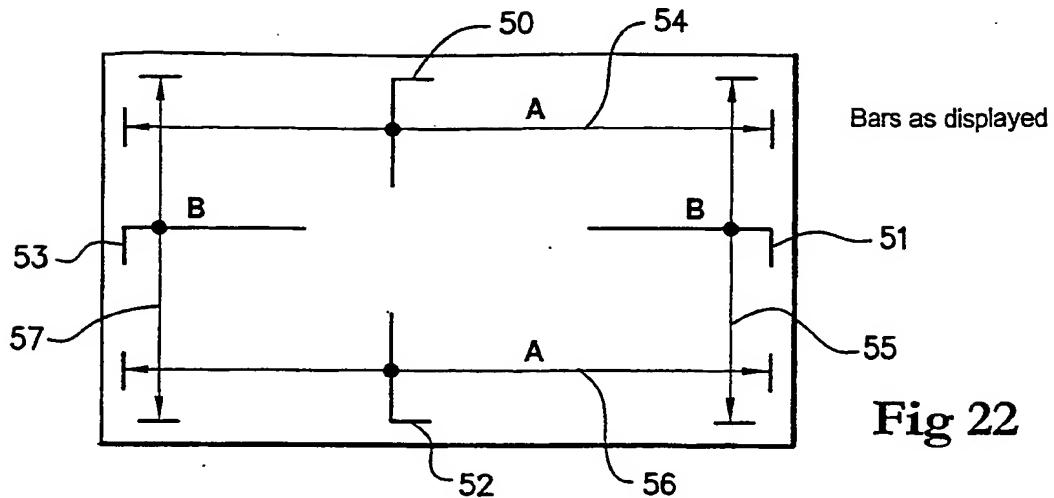


Barmarks rationalised

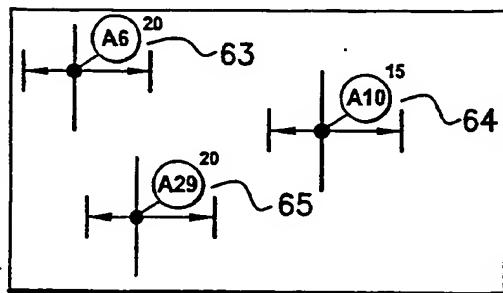
Fig 21

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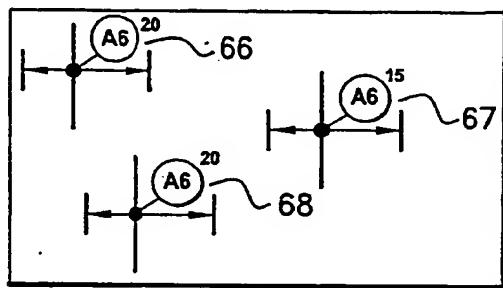
Scheduling distribution steel



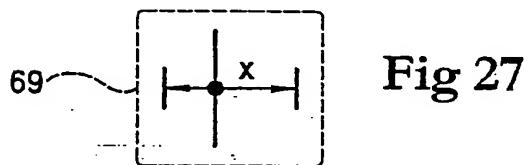
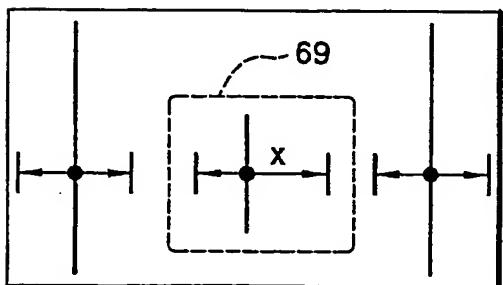
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Bar bundle rationalisation

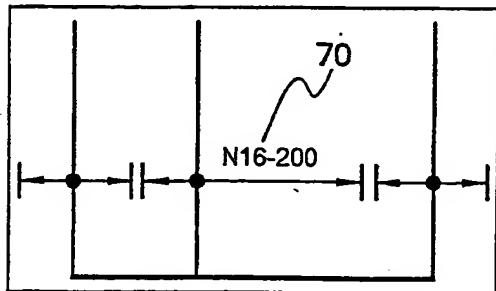
Bars identified for rationalisation

Fig 25

Bars rationalisation process

Fig 26**Inserting bar function****Fig 27**

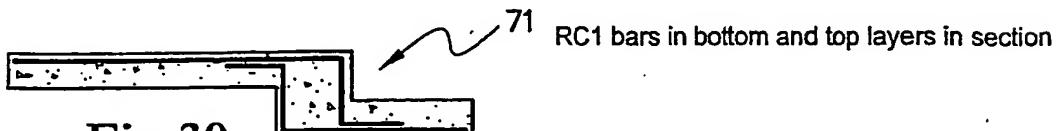
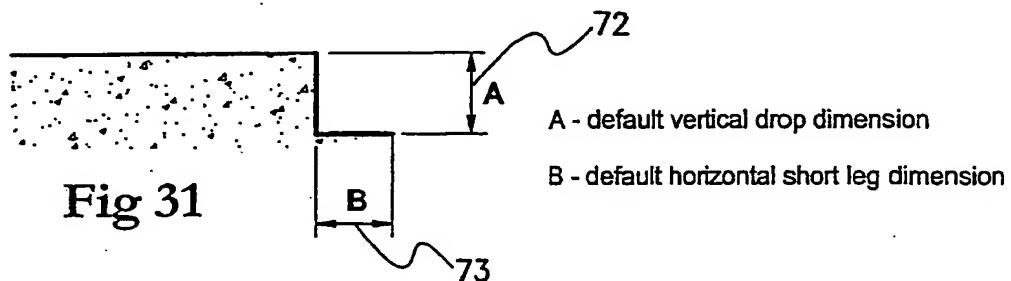
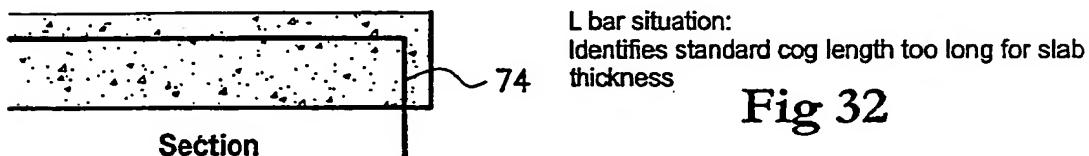
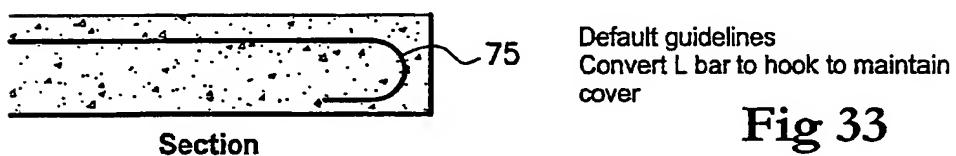
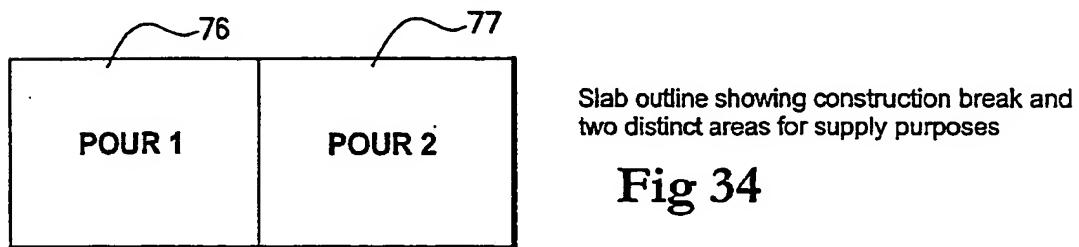
Dropped into place

Fig 28

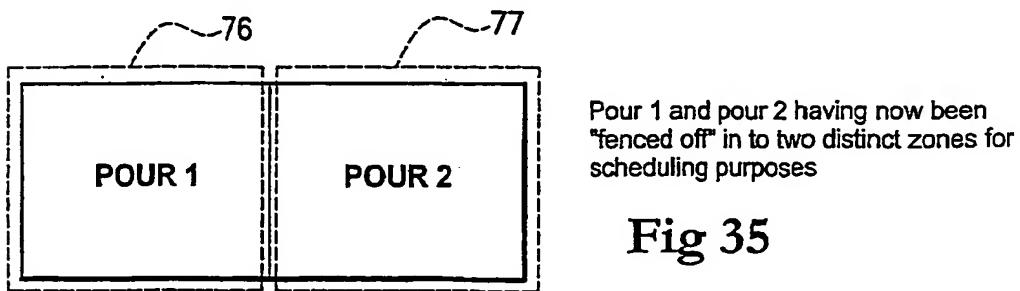
Manipulate bar length, shape, extent and spacings as required

Fig 29

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RC1 drop dimension default**Fig 30****Fig 31****Default guidelines for L bars****Fig 32****Fig 33****Fencing off slab areas**

Slab outline showing construction break and two distinct areas for supply purposes

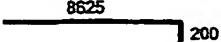
Fig 34

Pour 1 and pour 2 having now been "fenced off" in to two distinct zones for scheduling purposes

Fig 35

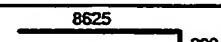
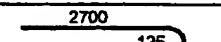
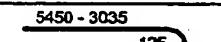
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Slab + scheduling window

Line	Mark	Remarks	Qty	Spacing	Bar	Code	Shape
1	A1a		40	250	N16	L0	

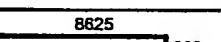
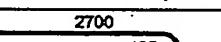
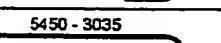
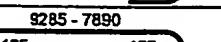
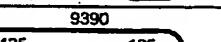
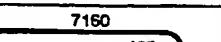
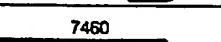
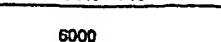
x 1 line

Fig 36

Line	Mark	Remarks	Qty	Spacing	Bar	Code	Shape
1	A1a		40	250	N16	L0	
2	A1b		20	250	N16	CH1	
3	A1cV		7	250	N16	CH1	

x 3 lines

Fig 37

Line	Mark	Remarks	Qty	Spacing	Bar	Code	Shape
1	A1a		40	250	N16	L0	
2	A1b		20	250	N16	CH1	
3	A1cV		7	250	N16	CH1	
4	A1dV		8	250	N16	CH2	
5	A1e		28	250	N16	CH2	
6	A1f		6	250	N16	CH1	
7	A1g		48	250	N16	C	
8	A2	Balcony	48	250	N16	RS7	
9	A3		134	250	N16	C	

Original

Fig 38

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Scheduling reinforcing tophats and lacer bars

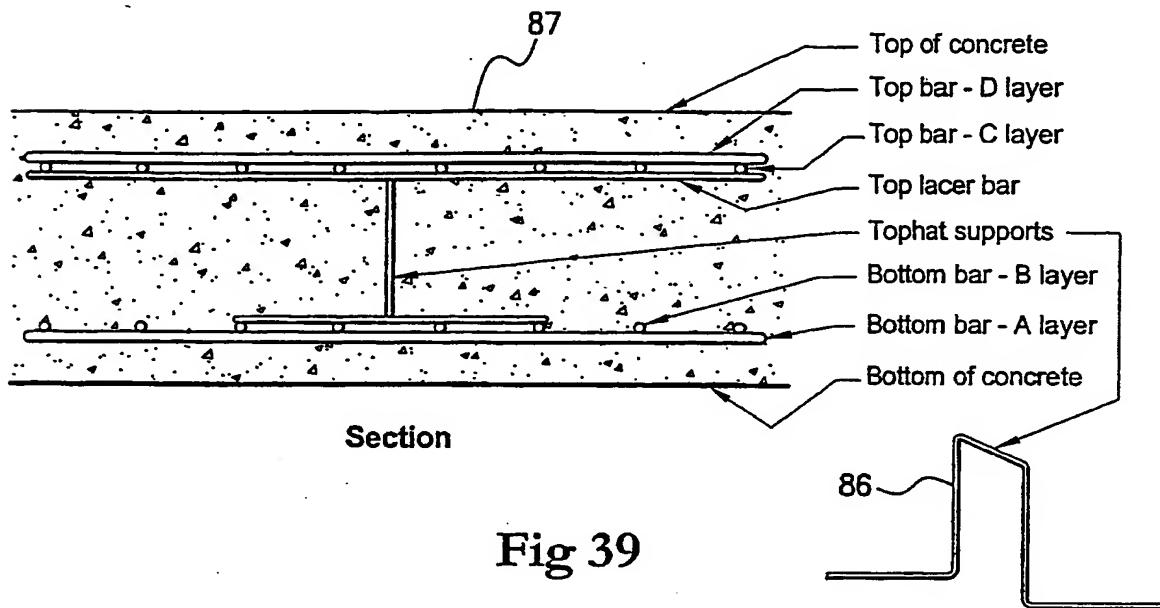
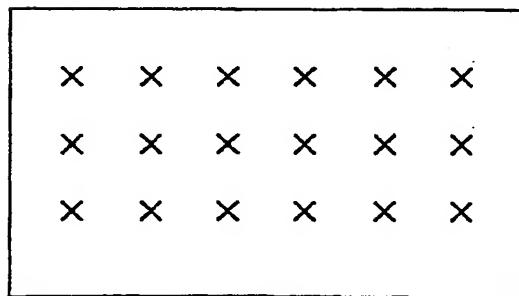
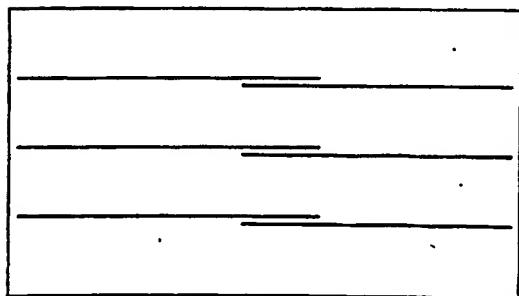


Fig 39



Indicates location of tophat positions
as determined by chosen spacing ie.
1200 centres

Fig 40



Indicates location of lacing bars located
over tophat positions, utilising stock bar
lengths, or bars cut to size

Fig 41

Scheduling tilt panels

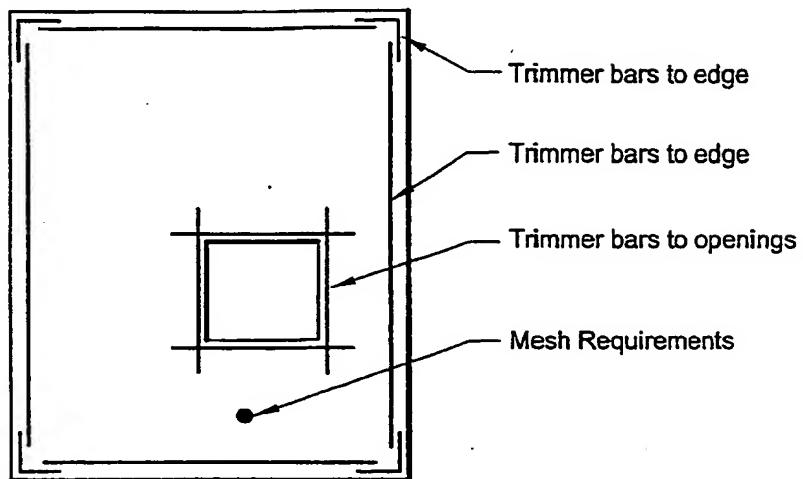


Fig 42

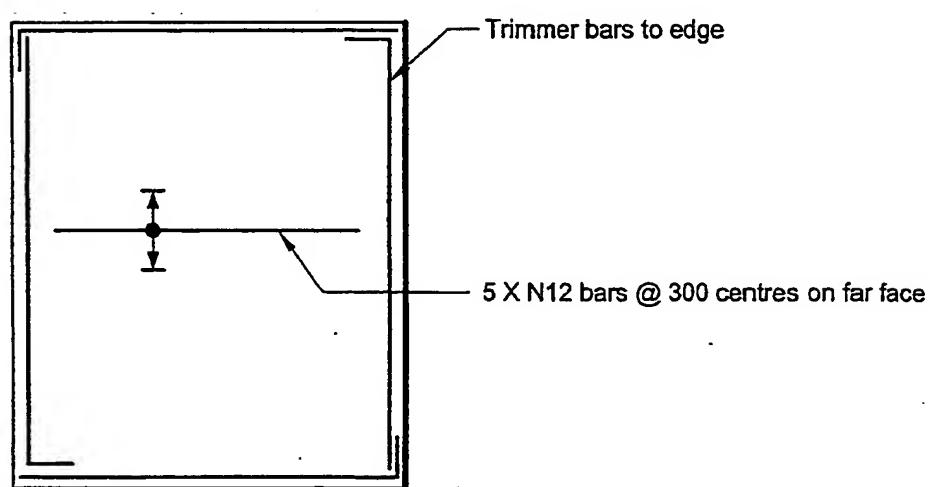


Fig 43

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Flow chart - Slab+ and associated processes

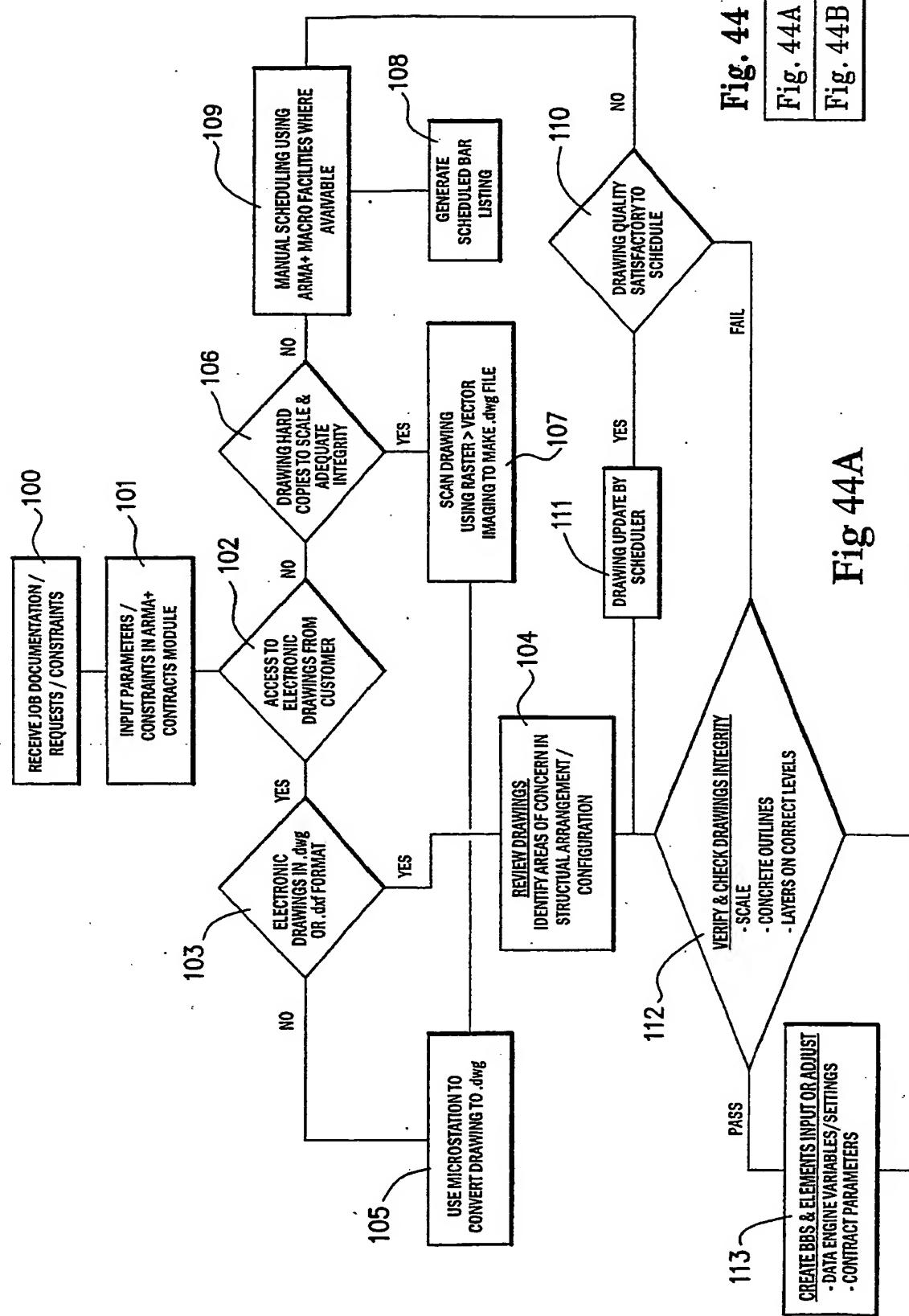


Fig. 44

Fig. 44A

Fig. 44B

Fig 44A

Flow chart - Slab+ and associated processes (Continued)

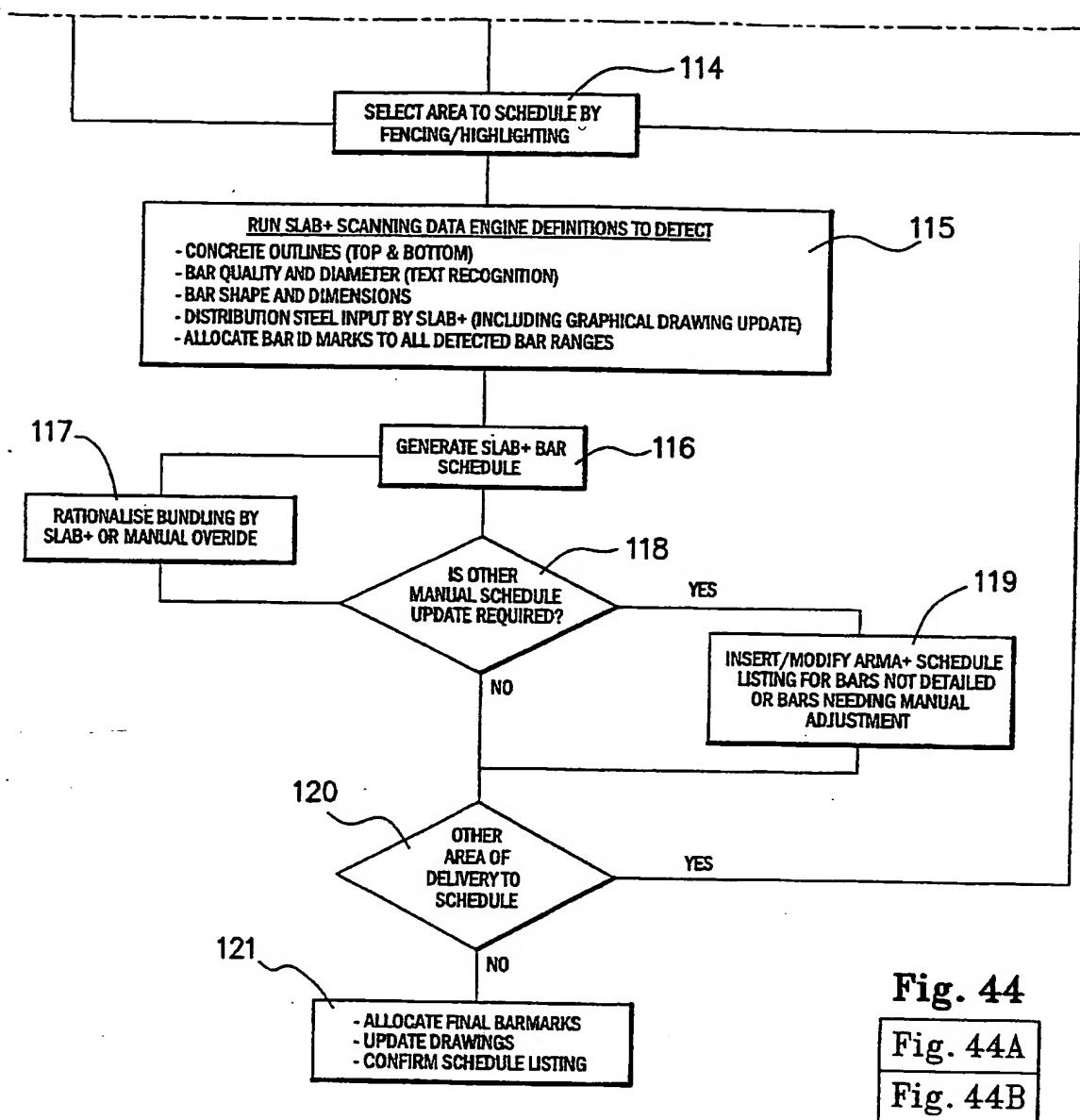


Fig. 44

Fig. 44A

Fig. 44B

Fig 44B

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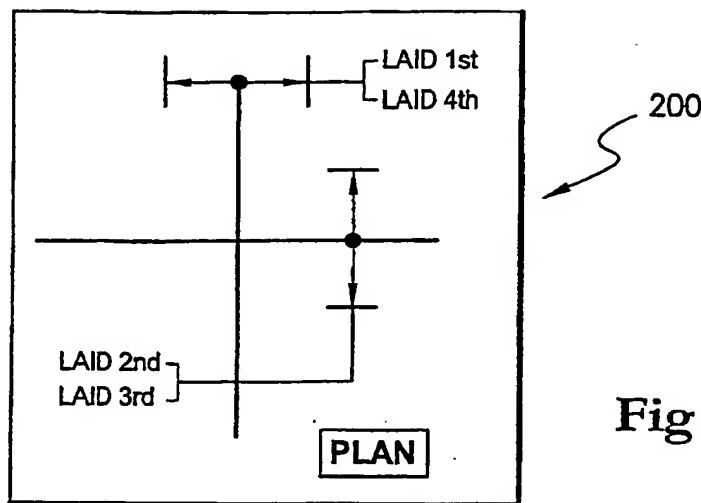


Fig 45

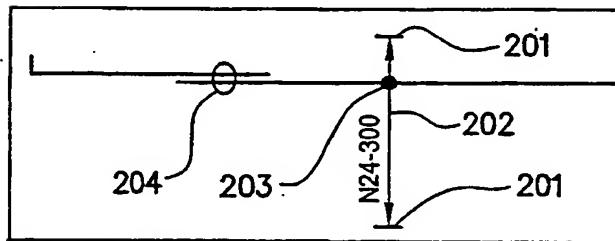


Fig 46

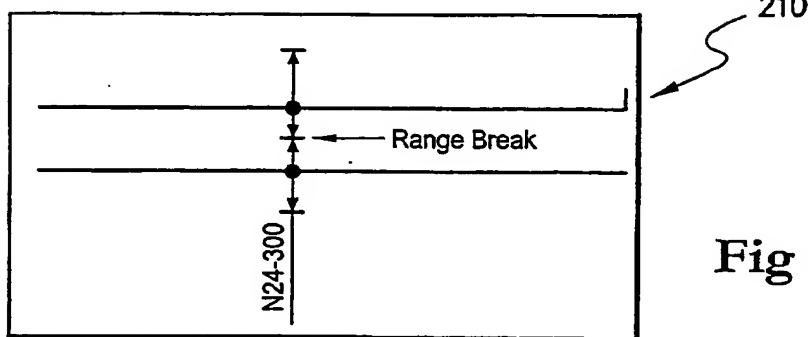


Fig 47

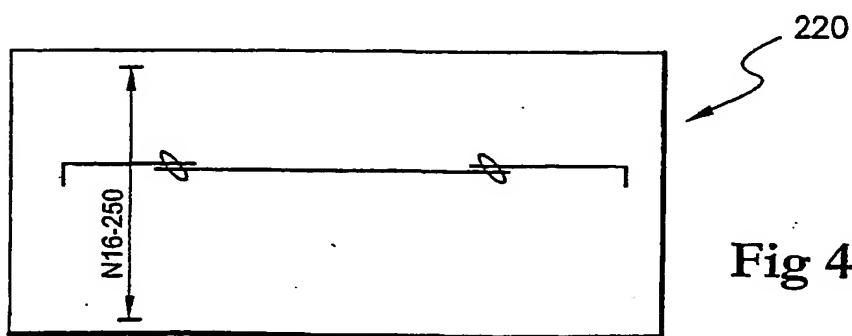


Fig 48